

LIQUID NAILS VBS RAPID FOR SEALING CONCRETE SLABS

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DESCRIPTION

A highly cross-linked, pigmented, two-pack epoxy water based vapour barrier system.

The mixed product is mid green in colour.

SIZES AVAILABLE

Available in a 5.0 Litre kit.

(Sufficient for 20 sq. metres of Solid Timber flooring or 40 sq. metres of engineered flooring.)

USES

- For sealing concrete floor slabs to reduce the amount of water vapour emanating from the concrete.
- Suitable for use on concrete slabs prior to using Selleys Liquid Nails DIRECT STICK or Flexible PU or MS adhesives to lay timber flooring.

Water vapour from a concrete slab can affect wooden flooring overlays.

Application of a suitable moisture vapour barrier such as WB VBS can reduce the chance of problems developing with wooden floors at a later stage.

TECHNICAL FEATURES

- Normally a one-coat system.
- Colour coded components to aid proper mixing
- Controlled opacity: - The mid green pigmented colour of the mixed product helps the applicator to gauge a consistent application rate by eye.
- Rapid cure
- Very low water vapour transmission rate.
- Low odour and water clean up.
- Excellent adhesion and application properties
- Optimal properties for subsequent bonding with Selleys Liquid Nails DIRECT STICK Polyurethane Timber Flooring Adhesive and Flexible PU or MS adhesives * if using a competitor adhesive an adhesion check is recommended.

LIMITATIONS

- In unusual circumstances, two coats may be required on very porous concrete.

TECHNICAL DETAILS

The following information provides typical properties.

Resin:	White (epoxy resin)
Hardener colour:	Green (amine based)
When Mixed :	Green thixotropic liquid suitable for brush, roller or trowel application.
Coverage:	One full pack is sufficient for 20m ² per coat for solid timber flooring and 40m ² for engineering flooring. Two coats may be required in case of very porous concrete or very high moisture levels in the slab.
Mix Ratios:	1:1 by weight or volume.
Curing Time:	Normally floors can be walked on, re-coated or adhered to in 2-4 hours.
Re-coat Time:	After curing and before 72 hours. If re-coating is required after 72 hours the floor will need to be lightly sanded to ensure adhesion of the next coat.
Pot life:	60 minutes at 25°C.
Working time:	Typically 40 minutes at 25°C.

Water Vapour

Barrier permeance: 125 and 250 micron coating will normally achieve a MVT of less than 15g/m²/24 hours. (Typically 6.5g and 4.5g respectively).

Note: To be effective as a vapour barrier, there must be a continuous film left on the surface. If this is not achieved in one coat then a second coat is required.

Shelf Life: 24 months in original containers

HOW TO USE

Selleys VBS Rapid cures rapidly. Ensure that all your preparation is complete and the application area is clear and marked out before commencing mixing.

- Product is supplied ready to mix and use.
- For application use a 5-6 mm mohair roller (or an applicator to minimise splatter), or a trowel. Coat edges first using with a paint brush.

SURFACE PREPARATION

- All surfaces must be clean, dry and sound, free of voids, loose materials and contaminants (curing compounds, oil, grease, waxes, sealers, previous coatings or adhesives, etc).
- Complete removal of any contamination must be carried out where it is suspected or evident.
- Surface preparation may be achieved by diamond grinding, shot blasting, sand blasting, captive abrasive blast cleaning (Blastrac) or other suitable method. (Acid etching is not recommended as the concrete has to be neutralised and dried afterwards.)
- Best preparation is to diamond grind the surface of the slab, as it enables the removal of high spots as well as laitance.
- Surface shall be structurally sound and level. [Concrete slabs shall be in accordance with AS2870-1996 Residential Footings and Slabs Code.]
- Concrete surfaces shall have a finish equivalent to that obtained when using a steel trowel.
- WB VBS can be applied if the concrete surface is dry and the slab has stabilised. To be stable, new concrete should be cured for at least 28 days
- Concrete should be flat and level (Refer ASTM F710-98 for determining).

SPECIAL NOTES ON DAMPNESS

- If dampness is suspected in a concrete slab, check by securely taping a 1m x 1m square of heavy duty plastic onto the slab, and leaving it for 24 hours. Any visible dampness or discolouration of the slab under the patch on removal of the plastic is a warning sign.
- If the slab is below grade, and there is a possibility of the water table being high enough to pressurise the concrete, perimeter drains would need to be installed.
- If the slab is still green and high in water-of-placement, then allow the excess water to migrate out by providing good ventilation or by using a dehumidifier until the surface is dry.
- Slabs known to be of, or prone to, high moisture levels may require 2 applications of WB VBS See recommendation to confirm barrier effectiveness below.

MIXING THE WHOLE KIT.

- **Each pack will cover approximately 20m² for solid timber floors or 40m² engineering flooring.**
- Add **ALL** of the **Green** hardener component to the **White** resin component in a 10L pail
- Once blended the mix is a uniform green colour.
- Use a Jiffy mixing blade with a slow speed drill, or the stirrer supplied.

- Use the stirrer to scrape around the sides and the bottom of the resin can during mixing to make sure all of the resin is properly incorporated.
- Streaks of green or white in the mix will demonstrate insufficient mixing.
- Mix for approximately two minutes.
- Once thoroughly mixed and streak free, the product can be applied by brush, roller or trowel.

SPREADING / ROLLING

- Detail ("Cut-in") around edges, corners and fine cracks with a brush before completing the rollout phase.
- The colour of the mix has been formulated to give a visual indication of varying thickness – shallow areas will tend to give a "grin-through" effect.
- **Surface should be even, glossy and streak free.**
- If coating soaks away, gives dull patches, or if pinholes are visible, a second coat should be applied once the first coat has cured.

MIXING LESS THAN A WHOLE KIT

- Calculate the area to be coated and use the blend sheet attached to calculate the quantity of product to mix.

CURE TIME

Normally floors can be walked on, re-coated or adhered to in 2-4 hours.

CLEAN UP

- Clean up with water. Use damp rags to remove any splatter from walls etc.

WARNINGS/FIRST AID

Refer to Safety Directions and Warnings on Pack Labels and refer to Material Safety Data Sheet before using.

- Avoid contact with eyes and skin.
- Wear eye protection, protective gloves and clothing when mixing and using.
- Good ventilation is recommended.

SHIPPING/STORAGE/DANGEROUS GOODS INFORMATION

Store in cool place out of direct sunlight. Keep containers sealed when not in use.